Application No. 10/617,852

Reply to Final Office Action of February 10, 2005

## Amendments to the Claims

This listing of claims will replace all prior versions and listing of claims in this application.

## Listing of Claims:

Claims 1-30 (Canceled)

31. (New) A process for preparing a crystalline silicoaluminophosphate molecular sieve of the AEL framework type, which process comprises; forming a reaction mixture comprising a source of alumina, a source of phosphate, a source of silica and at least one organic template which comprises one or more tertiary amines of the general formula (I):

$$(R)(R')(N)-(C_4H_9)$$
 (1)

wherein R and R', which may be the same or different groups, are substituted or un-substituted aliphatic or cycloaliphatic groups, except butyl groups, inducing crystallization of crystalline molecular sieve, and recovering the crystalline molecular sieve.

- 32. (New) The process of claim 31, wherein the molar ratio of organic template to Al<sub>2</sub>O<sub>3</sub> in the synthesis mixture is less than 3.
- 33. (New) A process as claimed in claim 31 wherein the one or more tertiary amines have the general formula (I):

$$(R)(R')N-(C_4H_9)$$
 (I)

wherein R and R' contain from 1 to 3 or 5 to 12 carbon atoms.

- 34. (New) A process as claimed in claim 33, wherein R and R' are linear alkyl groups, but not butyl groups.
- 35. (New) A process as claimed in claim 33, wherein R and R' contain a branched alkyl group but not butyl groups.

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- 36. (New) A process as claimed in claim 33, wherein R and R' are independently one of the following alkyl moieties: methyl, ethyl, n-propyl, iso-propyl, n-pentyl, iso-pentyl, n-hexyl, iso-hexyl, heptyl, iso-heptyl, n-octyl, iso-octyl, n-decyl, iso-decyl, n-undecyl, iso-undecyl, n-dodecyl and iso-dodecyl.
- 37. (New) A process as claimed in claim 33, wherein R and R' are independently methyl, ethyl and propyl.
- 38. (New) A process as claimed in claim 33, wherein R and R' are methyl.
- 39. (New) A process for preparing a crystalline silicoaluminophosphate molecular sieve, which process comprises; forming a reaction mixture comprising a source of alumina, a source of phosphate, a source of silica and at least one organic template which comprises one or more tertiary amines of the general formula (I):

## $(R)(R')(N)-(C_4H_9)$ (I)

wherein R and R', which may be the same or different groups, except butyl groups, are selected from the group consisting of substituted or un-substituted cycloaliphatic groups, linear or branched alcohol groups, and liner or branched amine-containing groups, inducing crystallization of crystalline molecular sieve, and recovering the crystalline molecular sieve.

- 40. (New) A process as claimed in claim 39, wherein R and R' are cycloaliphatic groups.
- 41. (New) A process as claimed in claim 39, wherein R and R' are linear or branched alcohol groups, or linear or branched amine-containing groups.
- 42. (New) A process as claimed in claim 31 or claim 39, further comprising the step of calcining the crystalline molecular sieve.

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- 43. (New) A process as claimed in claim 31 or claim 39, wherein the -C<sub>4</sub>H<sub>9</sub> group in formula (I) is n-butyl.
- 44. (New) A process according to claim 31 or claim 39, wherein the molar ratio of P<sub>2</sub>O<sub>5</sub>/Al<sub>2</sub>O<sub>3</sub> ratio in the synthesis mixture is within the range of 0.8 to 1.3.
- 45. (New) A silicoaluminophosphate molecular sieve, substantially of AEL framework type, comprising within its intra-crystalline structure at least one template which contains one or more tertiary amines having the general formula (I):

## $(R)(R')N-(C_4H_9)$ (I)

wherein R and R', which may be the same or different groups, are substituted or un-substituted aliphatic or cycloaliphatic groups, except butyl groups.

- 46. (New) The silicoaluminophosphate molecular sieve of claim 45, wherein the tertiary amine is N,N-dimethylbutylamine.
- 47. (New) The silicoaluminophosphate molecular sieve of claim 46, wherein the molecular sieve is SAPO-11.
- 48. (New) The silicoaluminophosphate molecular sieve of claim 45, having a platelet morphology.
- 49. (New) A method for the manufacture of a formulated catalyst composition, which method comprises forming a mixture comprising at least one silicoaluminophosphate molecular sieve according to claim 45 with at least one formulating agent, to form a catalyst composition.
- 50. (New) A formulated molecular sieve composition comprising at least one silicoaluminophosphate molecular sieve according to claim 45 in admixture with at least one formulating agent.